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Pesticide Fact Sheet Number 102
Carbon Tetrachloride

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16. Abstract (Limit: 200 words)

This document contains up-to-date chemical information, including a summary of the Agency's regulatory position and rationale, on a specific pesticide or group of pesticides. A Fact Sheet is issued after one of the following actions has occurred.

1. Issuance or reissuance of a registration standard,
2. Issuance of each special review document,
3. Registration of a significantly changed use pattern,
4. Registration of a new chemical, or
5. An immediate need for information to resolve controversial issues relating to a specific chemical or use pattern.

17. Document Analysis a. Descriptors

Pesticides, regulations, Chemical Information Fact Sheet, Use Patterns, Science Findings

b. Identifiers/Open-Ended Terms

c. COSATI Field/Group

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Office of Pesticide Programs (TS-766C)
Washington, DC 20460

EPA

Pesticide Fact Sheet

Name of Chemical: Carbon Tetrachloride
Reason for Issuance: Conclusion of Special Review
Date Issued: September, 1986
Fact Sheet Number: 102

1. Description of chemical

Generic name: Carbon Tetrachloride

Common name: same

Trade name: Benzinoform, Carbona, CAS 56-235, Dowfume 75, ENT 4705, Flukoide, Halon 104

EPA Shaughenssy Code (CAS) number: 016501

Chemical Abstracts Service (CAS) number: 56-23-5

Year of Initial Registration: 1956

Pesticide Type: Fumigant

Chemical family: Chlorinated hydrocarbon

2. Use patterns and formulations

Application sites: Harvested grains throughout storage transfer, milling, distribution, and processing phases, fumigation of museum specimens.

Type of formulations: Gas

Types and methods of application: Fumigation

3. Science Findings

Physical and Chemical Characteristics-

Physical state: Liquid

Color: Colorless

Odor: Strong ether-like odor

Boiling Point: 76.75°C

Freezing Point: -23°C

Vapor Density: 5.32 (air=1)

Melting Point: -23°C (-9°F)

4. Regulatory Position

- Position Document 1 issued October 15, 1980.
- OPP issued a Data-Call-In Notice in March 1984 requiring submission of reproduction (1 species), teratogenicity (2 species), residue chemistry data, updated Confidential Statements of Formula and product chemistry data.
- On April 23, 1986 a notice announcing the availability of the draft PD 2/3/4 was published in the Federal Register.
- The Agency is issuing a Notice of Intent to Cancel all pesticide products containing carbon tetrachloride based on oncogenic risk and other effects in laboratory animals. This notice cancels all carbon tetrachloride registrations already suspended for non-compliance with the above mentioned Data-Call-In Notice. The use on encased museum specimens, which was not subject to the March 1984 Data Call-In, will be allowed to continue because the current label instructions are sufficient to reduce applicator exposure so that the benefits outweighed the risks.

5. Concerns

- Significant data are available which suggest that carbon tetrachloride poses significant health and environmental hazards.
- Has been shown to pose acute and subacute poisoning risks.

- Has been shown to cause oncogenic effects in laboratory animals.
- May contribute to the breakdown of the atmosphere's ozone layer.

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